

# ARUSHI PATEL

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## PROFILE

First-year Engineering student passionate about woodworking, CAD, and coding. Organized and quick learner seeking a Summer 2025 Mechanical Engineering internship.

## EDUCATION

<b>Purdue University</b> - Bachelor of Science in Mechanical Engineering	<b>May 2028</b>
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Engineering Graphics (CAD), Linear Algebra, Diff. Eq., Multivariate Calc., C programming, Electricity and Magnetic Interactions</li></ul>	<b>GPA: 4.0/4.0</b>
<b>Inventure Academy</b> - High School Diploma	<b>Bengaluru, India</b>
<ul style="list-style-type: none"><li>A levels: 3A*, 1A, 1B (GPA: 3.8/4.0)</li></ul>	<b>Jun 2024</b>

## EXPERIENCE

<b>Purdue EPICS</b> - Design Lead	<b>Aug 2024 - May 2025</b>
<ul style="list-style-type: none"><li>Direct the end-to-end design and prototyping for a sensory product for Agape Therapeutic Riding</li><li>Maintain alignment with project timelines and design objectives, ensuring smooth progress</li></ul>	
<b>CS 159 (Fundamentals of C programming)</b> - Undergraduate Teaching Assistant	<b>Jan 2025 - Present</b>
<ul style="list-style-type: none"><li>Teach one lab section per week, guiding 30+ students through assignments and quizzes</li><li>Collaborate with TAs to improve teaching methods and student outcomes</li></ul>	
<b>Purdue Swim Club</b> - Treasurer	<b>Dec 2024 - Present</b>
<ul style="list-style-type: none"><li>Manage \$40,000 in club income and expenses, ensuring accurate financial records</li><li>Oversee payment of member dues and handle e-commerce transactions</li></ul>	
<b>Inventure Academy</b> - Student Government Member	<b>Jul 2022 - Aug 2024</b>
<ul style="list-style-type: none"><li>House Captain in Academic year 2022-23 and Community Outreach Prefect in 2023-24</li><li>Encouraged 200+ students to take part in community service programs</li><li>Head of Logistics for events with 400+ participants</li></ul>	

## PROJECTS

<b>Travel Chessboard</b> - A portable, rugged chessboard made of wood, metal magnets, and other varied adhesives	<b>Apr 2023 - Nov 2023</b>
<b>Adaptive Rock Climbing Wall</b> - Climbing wall that varies displayed routes based on the climber skill level	<b>Jul 2022 - Nov 2022</b>
<b>Tele-operated Robot</b> - Robot whose movement is controlled by the inclination of the hand	<b>Jun 2023 - Jul 2023</b>

## TECHNICAL SKILLS

**Software and Tools:** C, C++, Python, MATLAB, Excel, Arduino IDE  
**Design and Construction:** Woodworking, Power & Hand tools, CAD (Fusion360 & NX)  
**Hardware:** Arduino, ESP32

## AWARDS

<b>Dean's List and Semester Honors</b> - For attaining a 4.0 GPA in the Fall 2024, Spring 2025 semesters	<b>May 2025</b>
<b>King Constantine Award</b> - For outstanding service work. School-wide, every year, only one student is recognised with this international award	<b>Mar 2024</b>
<b>Cambridge Outstanding Learner Award in Design and Technology</b> - Recognized for high achievement in A level Design and Technology for the November 2023 series	<b>Jan 2025</b>

## CERTIFICATIONS

**CAD/3D Printing** - Purdue Milestones

- Fusion360 and PrusaSlicer